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L2: Entry 4 of 4

File: DWPI

Aug 27, 1993

DERWENT-ACC-NO: 1993-306213  
DERWENT-WEEK: 199339  
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TITLE: Phase change type optical recording medium - includes recording layer contg. silicon@ and protective layer  
contg. nitride or carbide and zinc sulphide

**PATENT-ASSIGNEE:**

ASSIGNEE	CODE
RICOH KK	RICO

PRIORITY-DATA: 1992JP-0017703 (February 3, 1992)

**PATENT-FAMILY:**

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>JP 05217211 A</u>	August 27, 1993		003	G11B007/24

**APPLICATION-DATA:**

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 05217211A	February 3, 1992	1992JP-0017703	

INT-CL (IPC): B41M 5/26; G11B 7/24

ABSTRACTED-PUB-NO: JP 05217211A  
BASIC-ABSTRACT:

Medium has least an optical recording layer contg. Ag, a protection layer and a radiation layer on a substrate. The protection layer has 2 layer structure of the layer next of the optical layer is made of a nitride or a carbide, and outer protection layer is made of ZnS or a composite contg. ZnS.

USE/ADVANTAGE - The medium is suitable for rewritable optical disk, with improved write/erase and repeating characteristics, since crack and exfoliation of the layers are prevented.

In an example, optical disk was prep'd. by lamination of a polycarbonate substrate, a 2000 Angstrom (A) thick ZnS-SiO<sub>2</sub> protection layer, a 1000 A thick AgInTe<sub>2</sub>Sb<sub>4</sub> (at.%), a 100 A thick SiN protection layer and 500 A thick Al-7wt.%i radiation layer. A test of the disk showed that repeating time was at least 100,000 times for keeping 45 dB of write character and at least 25 dB of erase ratio at 12 mW of write power and 6 mW of write/erase.

CHOSEN-DRAWING: Dwg.1/2

TITLE-TERMS: PHASE CHANGE TYPE OPTICAL RECORD MEDIUM RECORD LAYER CONTAIN SILICON@  
PROTECT LAYER CONTAIN NITRIDE CARBIDE ZINC SULPHIDE

DERWENT-CLASS: A89 G06 L03 M26 P75 T03 W04

CPI-CODES: A12-L03C; G06-A08; G06-C06; G06-D07; G06-F; L03-G04B; M26-B07;

EPI-CODES: T03-B01C5; T03-B01D1; T03-B01D8; W04-C01C;

UNLINKED-DERWENT-REGISTRY-NUMBERS: 1525U

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1] 017 ; P0862 P0839 F41 F44 Polymer Index [1.2] 017 ; ND01 ; K9701 K9676 ; K9483\*R ; K9610 K9483 ; Q9999 Q8924\*R Q8855 ; Q9999 Q8935\*R Q8924 Q8855 ; B9999 B3849\*R B3838 B3747 ; B9999 B5301 B5298 B5276

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0231 1288 1292 2613 2616 2841 2851 3252

Multipunch Codes: 017 04- 143 155 157 158 54& 551 552 555 597 600 634 649

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1993-136210

Non-CPI Secondary Accession Numbers: N1993-235540

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L2: Entry 2 of 4

File: JPAB

Aug 27, 1993

PUB-NO: JP405217211A

DOCUMENT-IDENTIFIER: JP 05217211 A

TITLE: PHASE CHANGE OPTICAL RECORDING MEDIUM

PUBN-DATE: August 27, 1993

## INVENTOR-INFORMATION:

NAME

COUNTRY

YOSHIO, TOSHIHIKO

## ASSIGNEE-INFORMATION:

NAME

COUNTRY

RICOH CO LTD

APPL-NO: JP04017703

APPL-DATE: February 3, 1992

US-CL-CURRENT: 369/283

INT-CL (IPC): G11B 7/24; B41M 5/26; G11B 7/24

## ABSTRACT:

PURPOSE: To provide a phase change optical recording medium having satisfactory recording, vanishing and repeating characteristics.

CONSTITUTION: This phase change optical recording medium has a protective layer 2, an optical recording layer 3 contg. at least silver, a protective layer 4 and a heat radiating layer 5 on a substrate 1. Each of the protective layers 2, 4 consists of two layers, the protective layers 2-2, 4-2 adjacent to the optical recording layer 3 are made of AlN, Si<sub>3</sub>N<sub>4</sub>, SiC, etc., and the outer protective layers 2-1, 4-1 are made of ZnS or ZnS-SiO<sub>2</sub>.

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## Freeform Search

Database:

US Patents Full-Text Database  
 US Pre-Grant Publication Full-Text Database  
**JPO Abstracts Database**  
 EPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Term:

(phase or alloy) and l24

Display:  Documents in Display Format:  Starting with Number Generate: ☐ Hit List ☒ Hit Count ☐ Side by Side ☐ Image

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## Search History

DATE: Tuesday, October 21, 2003 [Printable Copy](#) [Create Case](#)

Set Name Query  
 side by side

Hit Count Set Name  
 result set

DB=JPAB,EPAB,DWPI; PLUR=YES; OP=OR

<u>L26</u>	(phase or alloy) and l24	114	<u>L26</u>
<u>L25</u>	L20 with l19	591	<u>L25</u>
<u>L24</u>	l23 and @ad<19980101	599	<u>L24</u>
<u>L23</u>	L20 same l19	841	<u>L23</u>
<u>L22</u>	L21 and l20	1152	<u>L22</u>
<u>L21</u>	l19 and @ad<19980101	91747	<u>L21</u>
<u>L20</u>	((optical or laser or information) near5 (medium or media or disk\$1 or disc\$1))	210008	<u>L20</u>
<u>L19</u>	(interfac\$4 or inhibiting or barrier or prevention or diffusion or reaction) near4 (layer\$1 or film\$1)	131296	<u>L19</u>

DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=OR

<u>L18</u>	l17 and @ad<19980101	102	<u>L18</u>
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<u>L17</u>	(gen or geon or geo or ((ge or germanium) near3 (nitride\$1 or oxide\$1))) same l2	200	<u>L17</u>
<u>L16</u>	l15 and @ad<19980101	43	<u>L16</u>
<u>L15</u>	(gen or geon or geo) same l2	98	<u>L15</u>
<u>L14</u>	(L12 or l7) and @ad<19980101	61	<u>L14</u>
<u>L13</u>	(L12 or l7) and @ad<01011998	0	<u>L13</u>
<u>L12</u>	(L11 or l10) and l9	92	<u>L12</u>
<u>L11</u>	l8 same ((2 or 2.\$1 or 3 or 3.\$1 or 4 or 4.\$1 or 5 or 5.\$1 or 6 or 6.\$1 or 7 or 7.\$1 or 8) near3 (nm or nanometer\$1 or nanometre\$1))	1439	<u>L11</u>
<u>L10</u>	l8 same ((2\$1 or 3\$1 or 4\$1 or 5\$1 or 6\$1 or 7\$1 or 80) near3 (ang or angstrom or .ang\$2))	1508	<u>L10</u>
<u>L9</u>	L8 same l2	1019	<u>L9</u>
<u>L8</u>	(interfac\$4) near4 (layer\$1 or film\$1)	79767	<u>L8</u>
<u>L7</u>	L6 and l3	98	<u>L7</u>
<u>L6</u>	L5 or l4	8123	<u>L6</u>
<u>L5</u>	l1 same ((2\$1 or 3\$1 or 4\$1 or 5\$1 or 6\$1 or 7\$1 or 80) near3 (ang or angstrom or .ang\$2))	4459	<u>L5</u>
<u>L4</u>	l1 same ((2 or 2.\$1 or 3 or 3.\$1 or 4 or 4.\$1 or 5 or 5.\$1 or 6 or 6.\$1 or 7 or 7.\$1 or 8) near3 (nm or nanometer\$1 or nanometre\$1))	3855	<u>L4</u>
<u>L3</u>	L2 same l1	1152	<u>L3</u>
<u>L2</u>	((optical or laser or information) near5 (medium or media or disk\$1 or disc\$1))	369503	<u>L2</u>
<u>L1</u>	(barrier or prevention or diffusion or reaction) near4 (layer\$1 or film\$1)	248107	<u>L1</u>

END OF SEARCH HISTORY